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ABSTRACT

5 A siliceous support for use in a catalyst for  
producing a lower aliphatic carboxylic acid ester by  
reacting a lower olefin with a lower aliphatic carboxylic  
acid in a gas phase, which has a silicon content of from  
39.7 to 46.3% by mass or a silicon content of from 85 to  
99% by mass in terms of silicon dioxide or a crush  
strength of 30 N or more. By the use of a catalyst  
10 comprising the support, a lower aliphatic carboxylic acid  
ester is produced from lower olefin and a lower aliphatic  
carboxylic acid without causing great reduction of  
catalytic activity or cracking or abrasion of the  
catalyst.